



GEMS

Gravity and Extreme Magnetism SMEX

OPENING THE FRONTIER OF X-RAY POLARIZATION TO PROBE THE MYSTERIES OF THE UNIVERSE

GEMS WILL USE AN X-RAY TELESCOPE TO EXPLORE THE SHAPE OF SPACE THAT HAS BEEN DISTORTED BY A SPINNING BLACK HOLE'S GRAVITY, AND PROBE THE EFFECTS OF THE MAGNETIC FIELDS AROUND DEAD STARS WITH MAGNETIC FIELDS TRILLIONS OF TIMES STRONGER THAN EARTH'S.